

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Re Application of:

Yanmei Li et al.

Serial No.: 10/789,846

Filed: Feb. 27, 2004

For: Hydrogel For Use In Downhole Seal
Applications

Group Art Unit: Unknow

Examiner: Unknown

Docket No.: 56.0736

TRANSMISSION OF INFORMATION DISCLOSURE STATMENT

Commissioner for Patents

Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed before the receipt of a first office action on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement; however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Assistant Commissioner is hereby authorized to deduct said fees from Schlumberger Deposit Account No. 04-1579 (56.0736).

Applicants respectfully request that the listed document be made of record in the present case.

Respectfully submitted,



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Date: May 10, 2004

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Form PTO-1449 (modified)

Atty. Docket No.
56.0736Serial No.
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List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant
Yanmei Li et al.Filing Date:
February 27, 2004

Group:

U.S. Patent Documents
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U.S. Patent Documents

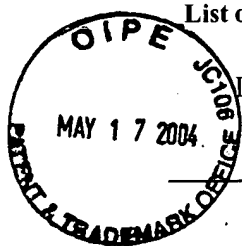
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	4,572,295	Feb. 25, 1986	Walley	166	295	Aug. 13, 1984
	A2	6,699,503	Mar. 2, 2004	Sako et al.	424	486	Nov. 1, 2000
	A3	6,699,611	Mar. 2, 2004	Kimet	429	24	Aug. 29, 2001
	A4	6,692,766	Feb. 17, 2004	Rubinstein et al	424	487	Dec. 21, 1995
	A5	6,667,029	Dec. 23, 2003	Zhong et al.	424	70.22	Jan. 12, 2001
	A6	6,635,732	Oct. 21, 2003	Mentak	526	319	July 30, 2001
	A7	6,576,713	June 10, 2003	Ishizaki	525	329.7	Feb. 22, 2001

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1						

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	"Rapid Swelling and Deswelling of Thermoreversible Hydrophobically Modified Poly(N-Isopropylacrylamide) Hydrogels Prepared by Freezing Polymerisation", Xue, W., Hamley, I. W. and Huglin, M. B., 2002, <i>Polymer</i> , 43(19) 5181-5186
	C2	"Thermoreversible Swelling Behaviour of Hydrogels Based on N- Isopropylacrylamide with a Zwitterionic Comonomer", Xue, W., Champ, S. and Huglin, M. B., 2001, <i>European Polymer Journal</i> , 37(5) 869-875
	C3	Dinarvand, R., D'Emanuele, A. (1995) The use of thermoresponsive hydrogels for on-off release of molecules. <i>J. Control. Rel.</i> 36: 221-227.
	C4	Seal-Tite Pressure Activated Sealant Technology, www.seal-tite.com



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U.S. Patent Documents
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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C5	Tanaka, T., Nishio, I., Sun, S.T., Ueno-Nishio, S. (1982) Collapse of gels in an electric field, Science. 218: 467-469.
	C6	Ishihara, K., Hamada, N., Sato, S., Shinohara, I. (1984) Photoinduced swelling control of amphiphilic azoaromatic polymer membrane. J. Polym. Sci., Polym. Chem. Ed. 22: 121-128.
	C7	Ricka, J. Tanaka, T. (1984) Swelling of ionic gels: Quantitative performance of the Donnan theory, Macromolecules. 17: 2916-2921.
	C8	Swell Packer for Oil Based Mud, www.ews.as/swell1.html